

Lehmann & Voss LUVOCOM[®] 80-8510 Polyacetal-copolymer, with mineral filler, lubricant modified

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Mineral Filled

Material Notes:

Applications: Automotive industry, textile- and office machinery, apparatus- and precision engineering. Improved friction and wear behaviour. Emergency running property. Isotropic shrinkage characteristics. High dimensionally stable precision parts with low warpage and narrow tolerance range. Bearings, sleeves, sliding elements, handles, machine parts. No mass temperature above 215[°]C! Ventilation of machinery is recommended. Information provided by Lehmann & Voss & Co. KG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lehmann-Voss-LUVOCOM-80-8510-Polyacetal-copolymer-with-mineral-filler-lubricant-modified.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.61 g/cc	1.61 g/cc	ISO 1183
Water Absorption	<= 0.10 %	<= 0.10 %	23 [°] C/24h
Linear Mold Shrinkage	0.010 - 0.017 cm/cm	0.010 - 0.017 in/in	
Melt Flow	9.66 g/10 min @Load 2.16 kg, Temperature 190 [°] C	9.66 g/10 min @Load 4.76 lb, Temperature 374 [°] F	

Mechanical Properties	Metric	English	Comments
Tensile Stress	55.0 MPa	7980 psi	
Elongation at Yield	4.5 %	4.5 %	
	5.0 %	5.0 %	flexural
Modulus of Elasticity	6.50 GPa	943 ksi	
Flexural Strength	95.0 MPa	13800 psi	
Flexural Modulus	6.00 GPa	870 ksi	
Charpy Impact Unnotched	2.50 J/cm ²	11.9 ft-lb/in ²	flatwise; ISO 179 1fU

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	100 [°] C	212 [°] F	
	120 [°] C	248 [°] F	short term
Deflection Temperature at 1.8 MPa (264 psi)	110 [°] C	230 [°] F	

Electrical Properties	Metric	English	Comments
Surface Resistance	$\geq 1.00 \times 10^{12}$ ohm	$\geq 1.00 \times 10^{12}$ ohm	
Insulation Resistance	$\geq 1.00 \times 10^{12}$ ohm	$\geq 1.00 \times 10^{12}$ ohm	

Processing Properties	Metric	English	Comments
Processing Temperature	200 Â°C	392 Â°F	mass temp
Nozzle Temperature	175 - 200 Â°C	347 - 392 Â°F	
Zone 1	175 - 190 Â°C	347 - 374 Â°F	
Zone 2	185 - 205 Â°C	365 - 401 Â°F	
Zone 3	180 - 200 Â°C	356 - 392 Â°F	
Mold Temperature	80.0 - 120 Â°C	176 - 248 Â°F	
Drying Temperature	75.0 Â°C @Time 7200 - 28800 sec	167 Â°F @Time 2.00 - 8.00 hour	Dehumidifying dryer
	120 Â°C @Time 7200 - 14400 sec	248 Â°F @Time 2.00 - 4.00 hour	Air-Circulation Dryer

Descriptive Properties	Value	Comments
Color	dark grey	

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